CLAIMS

1. A polypropylene-base molded article, which is a single-layer or multilayer molded article having a layer comprising a thermoplastic resin composition, wherein the thermoplastic resin composition contains a polypropylene resin composition (A) satisfying the following requirements and an ethylene-base copolymer (B) comprising an ethylene and at least one α-olefin having 4 or more carbon atoms:

the polypropylene resin composition (A) is a composition containing from 50 to 80% by mass of a polypropylene component (C) and from 50 to 20% by mass of a copolymer elastomer component (D) of propylene, ethylene and/or α -olefin having from 4 to 12 carbon atoms,

the melt flow rate is in the range from 0.1 to 15.0 g/10 min,

the content of the unit originated in the propylene in the copolymer elastomer component (D) is from 50 to 85% by mass, and

the xylene-soluble portion X_s satisfies the following requirements (I) to (V):

- (I) the propylene content F_p is from 50 to 80% by mass,
- (II) the intrinsic viscosity $[\eta]_{Xs}$ of the xylene-soluble portion X_s is from 1.4 to 5 dL/g,
- (III) the ratio of the intrinsic viscosity $[\eta]_{Xs}$ to the intrinsic viscosity $[\eta]_{Xi}$ of the xylene-insoluble portion X_i is from 0.7 to 1.5,
- (IV) the propylene content (P_p) of the high propylene content component as defined according to the two-site model is from 60% by mass to less than 95% by mass and the propylene content (P'_p) of the low propylene content component is from 20% by mass to less than 60% by mass, and
- (V) the propylene content (P_p) of the high propylene content component as defined according to the two-site model, the propylene content (P'_p) of the low propylene content component, the ratio (P_{fl}) of the high propylene content component occupying in F_p , and the ratio $(1-P_{fl})$ of the low propylene content component occupying in F_p satisfy the following formulae (1) and (2):

$$P_p/P'_p \ge 1.90 \tag{1}$$

$$2.00 < P_{fl}/(1-P_{fl}) < 6.00$$
 (2)

2. The polypropylene-base molded article as claimed in claim 1, wherein the

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refractive index of the xylene-soluble portion in the thermoplastic resin composition is from 1.480 to 1.495.

- 3. The polypropylene-base molded article as claimed in claim 1 or 2, wherein the amount of the xylene-soluble portion in the thermoplastic resin composition is from 20 to 70% by mass.
- 4. The polypropylene-base molded article as claimed in any one of claims 1 to 3, wherein in the thermoplastic resin composition, the ratio (MFR_A/MFR_B) of the melt flow rate (MFR_A) of the polypropylene resin composition (A) to the melt flow rate (MFR_B) of the ethylene-base copolymer (B) is from 0.3 to 3.0.
- 5. The polypropylene-base molded article as claimed in any one of claims 1 to 4, which is a multilayer polypropylene-base molded article and further has a layer comprising a polyolefin-base resin.
- 6. The polypropylene-base molded article as claimed in claim 5, wherein the polyolefin-base resin is a polyethylene-base resin.
- 7. The polypropylene-base molded article as claimed in claim 6, wherein the polyethylene-base resin contains 15% by mass or more of a high-density polyethylene.
- 8. The polypropylene-base molded article as claimed in claim 6, wherein the polyethylene-base resin comprises substantially only a high-density polyethylene.
- 9. The polypropylene-base molded article as claimed in any one of claims 1 to 8, wherein the thickness of the layer comprising a thermoplastic resin composition accounts for 40% or more of the entire thickness.
- 10. The polypropylene-base molded article as claimed in any one of claims 1 to 9, which is produced by a multilayer co-extrusion water-cooling inflation molding method or a multilayer co-extrusion T-die casting method.

- 11. A container comprising the polypropylene-base molded article claimed in any one of claims 1 to 10.
- 12. The container as claimed in claim 11, wherein the container comprises a multilayer polypropylene-base molded article and the outermost layer is a layer comprising a polypropylene resin composition or a propylene α-olefin random copolymer.
- 13. The container as claimed in claim 11, wherein the container comprises a multilayer polypropylene-base molded article and the outermost layer is a layer containing a polyethylene-base resin.
- 14. The container as claimed in claim 13, wherein the polyethylene-base resin contains 15% by mass or more of a high-density polyethylene.
- 15. The container as claimed in claim 13, wherein the polyethylene-base resin comprises substantially only a high-density polyethylene.
- 16. The container as claimed in any one of claims 11 to 15, wherein the container comprises a multilayer polypropylene-base molded article and the innermost layer is a layer containing a polyethylene-base resin.
- 17. The container as claimed in claim 16, wherein the polyethylene-base resin comprises substantially only a high-density polyethylene.
- 18. The container as claimed in any one of claims 11 to 17, which is a medical container for housing a medical substance.